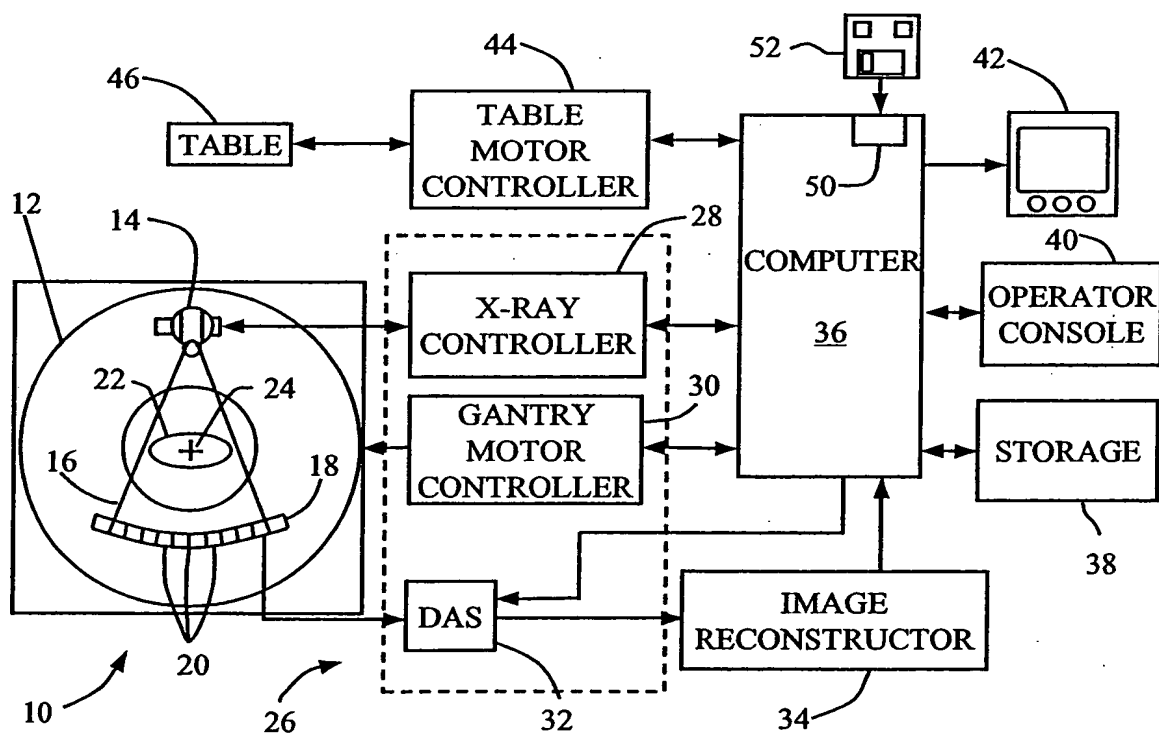


FIG. 1



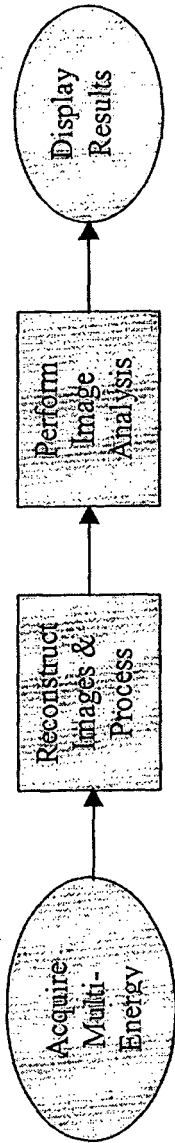


Fig. 3

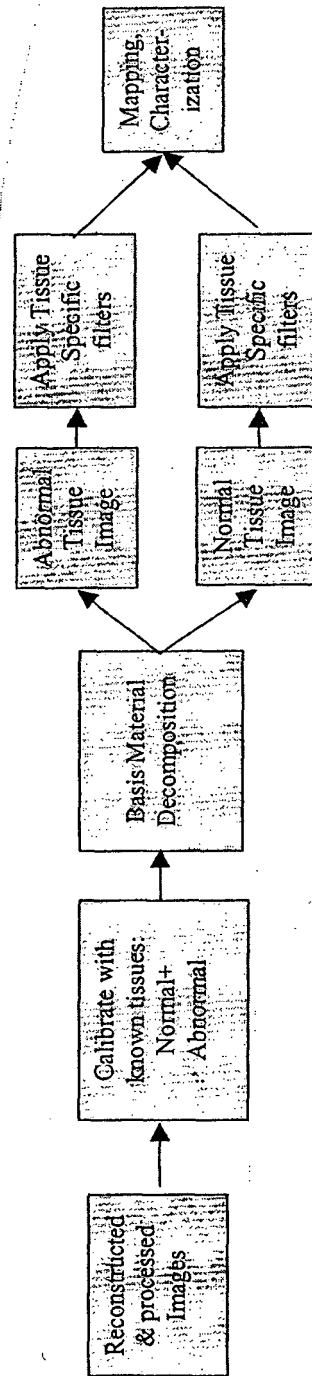


Fig. 4

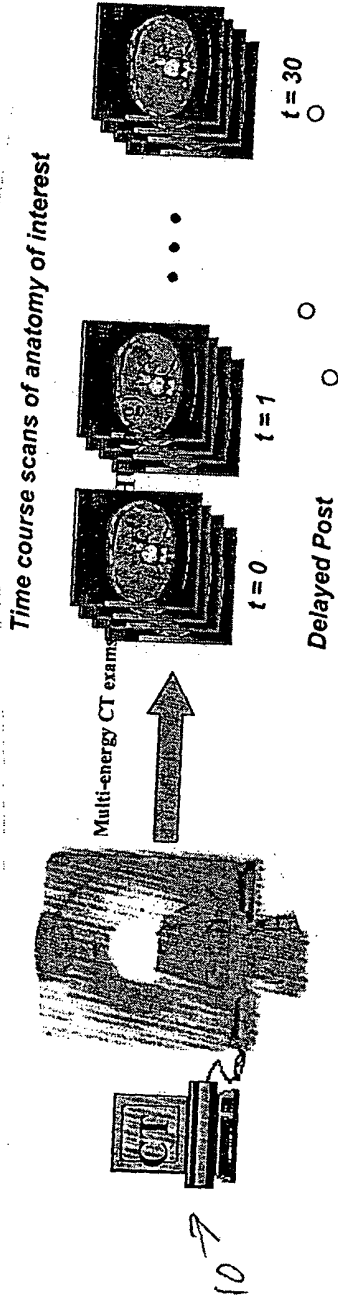
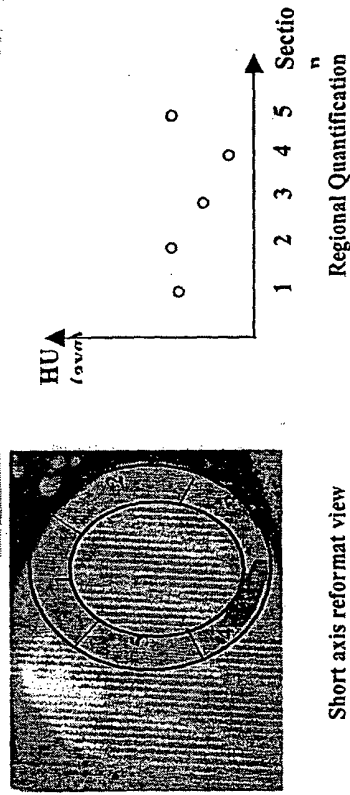


Fig 5



Result of energy discrimination analysis on multi-energy CT images to identify perfusion defects in myocardial tissue

Fig 6

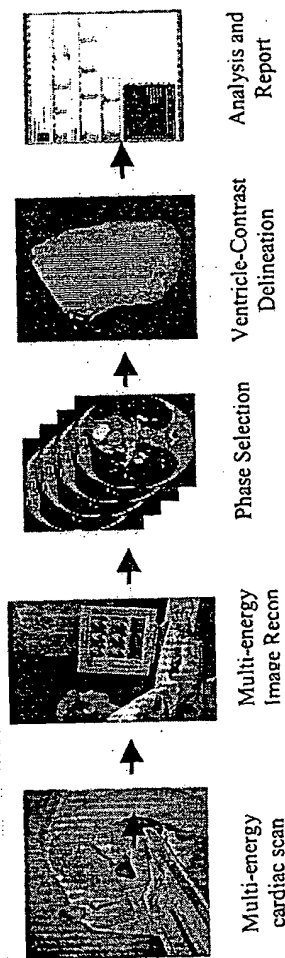


Figure 7 System for acquisition and analysis of multi-energy CT exams for cardiac function analysis.

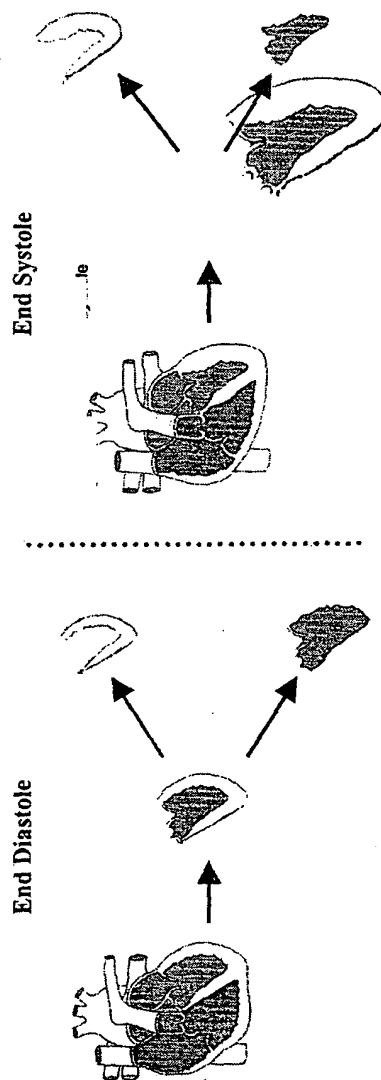


Figure 8 Results of delineation of the ventricular myocardium from the contrast-filled blood using a multi-energy CT scans. First, each of the ventricles is separated from the surrounding anatomy (example shows left ventricle separation), followed by separation of contrast-filled blood from the ventricular tissue. This is done at both end diastole and end systole.



**Figure 9** Examples of accurate diagnoses by energy discrimination analysis on multi-energy CT exams.  
 a. Transmural infarction; b. Sub-endocardial infarction; c. Hypertrophic cardiomyopathy;  
 d. Myocardial ischemia and injury.